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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/650,440	08/27/2003	Frederic G. Thiele	END920030068US1	7247	
26502 IBM CORPOR	7590 03/05/200 RATION	EXAMINER			
IPLAW IQ0A	/40-3	PERUNGAVOOR, VENKATANARAY			
1701 NORTH STREET ENDICOTT, NY 13760			ART UNIT	PAPER NUMBER	
,			2132		
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE		
2 MONTUS		03/05/2007	DAD	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)			
Office Action Summary		10/650,440	THIELE ET AL.			
		Examiner	Art Unit			
		Venkat Perungavoor	2132			
Period fo	The MAILING DATE of this communication ap or Reply	pears on the cover sheet with the c	orrespondence address			
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLEMENTED IS LONGER, FROM THE MAILING Designs of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statuted the provided by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	PATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be timwill apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	I. lely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status	•					
1) 🂢	Responsive to communication(s) filed on 18 J	anuary 2007.				
	This action is FINAL . 2b) This action is non-final.					
3) 🗌	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
4) 🖂	4)⊠ Claim(s) <u>1-16 and 21-24</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) 🗌	5) Claim(s) is/are allowed.					
6)⊠	☑ Claim(s) <u>1-16 and 21-24</u> is/are rejected.					
	Claim(s) is/are objected to.					
8)[_]	Claim(s) are subject to restriction and/o	or election requirement.				
Applicati	on Papers					
9) The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority (ınder 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview Summary Paper No(s)/Mail Da				
3) Inform	nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	5) Notice of Informal P 6) Other:				

DETAILED ACTION

Response to Arguments

Applicant's arguments, see pages 11-14, filed 1/7/2007, with respect to the rejection(s) of claim(s) 1-24 under 35 USC § 102(e) as anticipated by US Patent Pub 2003/0145228 A1 to Suuronen et al. have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of US Patent Pub 2002/0116512 to Amit et al.(hereinafter Amit) in combination with US Patent Pub 2003/0145228 A1 to Suuronen et al.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-2,4-5, 13-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent Publication 2003/0145228 A1 to Suuronen et al.(hereinafter Suuronen) in view of US Patent Publication 2002/0116512 to Amit et al.(hereinafter Amit).

Art Unit: 2132

Regarding Claim 1, 13, Suuronen discloses the computer storage medium see Abstract; first program to determine of packet is known exploit or portion thereof see Par. 0021; a third program to determine administration packet see Fig. 1 item 20(IP packets that cannot contain viruses, administration packets belong in this category). But fails to explicitly disclose the packet being addressed to an broadcast address and further to determine whether it is a new packet. However, Amit discloses the packet addressed to a broadcast address see Fig. 4 item "Receiving TCP connection data" and further of examining the packet to detect new packets see "Detect new connections requests". Further yet, Amit discloses the new packets being classified as primary(i.e. known and reliable source, axiomatic to benign of instant invention) and secondary(unknown source) see "Classifying new connection request as "secondary"" & "Classifying new connection request as "primary"". It would be obvious to one having ordinary skill in the art at the time of the invention to include packet being addressed to an broadcast address and further to determine whether it is a new packet in the invention of Suuronen in order to be able to download new packets as taught in Amit see Par. 0035.

Regarding Claim 2, 14, 22, Suuronen discloses the firewall being used for scanning for via lotion of rules and determination of web traffic including webcrawlers and broadcast packets see Par. 0009 & Fig. 1. Suuronen discloses the dropping of packets from the Firewall(14) that do not comply with the rules, see Fig. 1. And packet being examined if the database can find it or otherwise considered new see Fig. 1 item 24.

Art Unit: 2132

Regarding Claim 4, 17, Suuronen discloses the blacklisting of packets so that known exploits can no longer have access to network's destination see Par. 0007.

Regarding Claim 5, 15, Suuronen discloses the gateway being used being several communication networks see Fig. 2-5, whereby the gateway is an computing device that is easily adaptable on an network and not a dedicated device.

Regarding Claim 7, Suuronen discloses the scanning of packets for signature see Fig. 1 item 22.

Regarding Claim 12, Suuronen discloses the packets being alerted when the packet is not a broadcast or administration, known exploit see Fig. 1.

Regarding Claim 21, Suuronen discloses the computer storage medium see Abstract; first program to determine of packet is known exploit or portion thereof see Par. 0021; a third program to determine administration packet see Fig. 1 item 20(IP packets that cannot contain viruses, administration packets belong in this category). But fails to explicitly disclose the packet being addressed to an broadcast address and further to analyzing the packets including protocols for valid protocols. However, Amit discloses the packet addressed to a broadcast address see Fig. 4 item "Receiving TCP connection data" and further of analyzing the packets including protocols for valid protocols see Par. 0029. It would be obvious to one having ordinary skill in the art at the

be able to download new packets as taught in Amit see Par. 0034.

Art Unit: 2132

time of the invention to include packet being addressed to an broadcast address and further to determine whether it is a new packet in the invention of Suuronen in order to

Claims 3, 8-11, 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S Patent Publication 2003/0145228 A1 to Suuronen et al.(hereinafter Suuronen) in view of US Patent Publication 2002/0116512 to Amit et al.(hereinafter Amit) and further in view of U.S. Patent 6853619 to Grenot.

Regarding Claim 3, Suuronen does not disclose the searching based on signature for known exploits. However, Grenot discloses the searching based on signature for known exploits see Col 6 Ln 8-25. It would be obvious to one having ordinary skill in the art at the time of the invention to include the signature searching for known exploits in the invention of Suuronen in order to search based on an quantitative measure as taught in Col 8 Ln 48-52 of Grenot.

Regarding Claim 8, Suuronen does not disclose the examining of gateways and sub-net masks. However, Grenot discloses the examining of gateways and sub-net masks see Col 6 Ln 26-35. It would be obvious to one having ordinary skill in the art at the time of the invention to include the examining of gateways and sub-net masks in the invention of Suuronen in order to examining flows as taught in Grenot see Col 6 Ln 26-35.

Application/Control Number: 10/650,440 Page 6

Art Unit: 2132

Regarding Claim 9-11, 24, Suuronen does not disclose the comparing of IP addresses and protocols. However, Grenot discloses the comparing of IP addresses and protocols see Col 5 Ln 63-Col 6 Ln 3 & Col 3 Ln 13-23. It would be obvious to one having ordinary skill in the art at the time of the invention to include the in the comparing of IP addresses and protocols invention of Suuronen in order to have a first line of defense against an attack.

Claims 6, 16, 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent Publication 2003/0145228 A1 to Suuronen et al.(hereinafter Suuronen) in view of US Patent Publication 2002/0116512 to Amit et al. (hereinafter Amit) further in view of US Patent Publication 2002/0131369 A1 to Hasegawa et al. (hereinafter Hasegawa).

Regarding Claim 6, 16, 23, Suuronen does not disclose the administrator being alerted and analysis result being reported. However, Hasegawa discloses the manager being alerted and result being reported see Fig. 1 item 1, DB2. It would be obvious to one having ordinary skill in the art at the time of the invention to include the manager being alerted and result being reported in the invention of Suuronen in order to manager may take an proactive approach to deal with the threat as taught in Hasegawa see Par. 0038-0043.

Conclusion

Art Unit: 2132

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Venkat Perungavoor whose telephone number is 571-272-7213. The examiner can normally be reached on 8:30-5:00. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gilberto Barron can be reached on 571-272-3799. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/650,440

Art Unit: 2132

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published

applications may be obtained from either Private PAIR or Public PAIR. Status

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more information about the PAIR system, see http://pair-direct.uspto.gov. Should you

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Customer Service Representative or access to the automated information system, call

800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Venkat Perungavoor

Page 8

Examiner

Art Unit 2132

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2100